



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

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Sheet 1 of 1

ATTORNEY DOCKET NO.

1736-000001/REB

SERIAL NO.

10/643,674

APPLICANT

HYON et al.

FILING DATE

August 19, 2003

GROUP

1711

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	SB	3,563,870	Feb. 16, 1971	Tung et al.		
2.	SB	4,586,995	May 6, 1986	Randall et al.		
3.	SB	4,668,577	May 26, 1987	Ohta et al.		
4.	SB	5,160,464	Nov. 3, 1992	Ward et al.		

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	SB	CA 1257745	Jul. 18, 1989	Canada		N/A	

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1.	SB	Bhateja et al. "Radiation-Induced Crystallinity Changes in Linear Polyethylene," <i>Journal of Polymer Science: Polymer Physics Edition</i> , Vol. 21 (1983) p. 523-536.
2.	SB	Bhateja, S.K. "Radiation-Induced Crystallinity Changes in Linear Polyethylene: Influence of Aging," <i>Journal of Applied Polymer Science</i> , Vol. 28 (1983) p. 861-872.
3.	SB	Muratoglu et al. "A Novel Method of Cross-Linking Ultra-High-Molecular-Weight Polyethylene to Improve Wear, Reduce Oxidation, and Retain Mechanical Properties," <i>The Journal of Arthroplasty</i> , Vol. 16, No. 2 (2001) p. 149-160.
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5.	SB	Streicher, R.M. "UHMW-Polyethylen als Werkstoff für artikulierende Komponenten von Gelenkendoprothesen (UHMW Polyethylene Used as a Material for the Articulating Components of Endoprotheses)," <i>Biomed. Technik</i> , Vol. 38, No. 12 (1993) p. 303-313. (See English Abstract)

Examiner: /Susan Berman/

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1.	SB	4,902,460	02/20/1990	Yagi et al.		
2.		5,478,906	12/26/1995	Howard, Jr.		
3.		5,508,319	04/16/1996	DeNicola, Jr. et al.		
4.		5,684,124	11/04/1997	Howard, Jr. et al.		
5.		5,824,411	10/20/1998	Shalaby et al.		
6.		2001/0049401	12/06/2001	Salovey et al.		
7.		6,372,814	04/16/2002	Sun et al.		
8.		2003/0158287	08/21/2003	Salovey et al.		
9.		6,664,308	12/16/2003	Sun et al.		
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11.		6,818,020	11/16/2004	Sun et al.		
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2.	SB	Appleby et al. "Property Modification of Polyethylene Tapes by Acetylene-Sensitized Gamma Irradiation" Journal of Materials Science. Vol. 29 (1994) p 151-156.
3.	SB	Bhateja et al. "Radiation-Induced Crystallinity Changes in Polyethylene Blends" Journal of Materials Science. Vol. 20 (1985) p. 2839-2845.
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8.		Chu et al. "Some Structures and Properties of Very High Molecular Weight Linear Polyethylene" Bull. Inst. Chem. Res. Vol. 47, No. 3 (1969) p. 209-221.
9.		Dijkstra et al. "Cross-linking of Ultra-high Molecular Weight Polyethylene in the Melt by Means of Electron Beam Irradiation" Polymer. Vol. 30 (May 1989) p. 866-873.
10.		Dole et al. "Crystallinity and Crosslinking Efficiency in the Irradiation of Polyethylene" Radiat. Phys. Chem. Vol. 14 (1979) p. 711-720
11.		du Plessis et al. "The Improvement of Polyethylene Prostheses Through Radiation Crosslinking" Radiat. Phys. Chem. Vol. 9 (1977) p. 647-652.
12.		Ellwanger et al. "Very High Pressure Molding of Ultra High Molecular Weight Polyethylene (UHMWPE)" ANTEC. (1987) p. 572-574.
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28.		Oonishi et al. "Improvement of Polyethylene by Irradiation in Artificial Joints" Radiat. Phys. Chem. Vol. 39, No. 6 (1992) p. 495-504.
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33.		Patel, G. "Acceleration of Radiation-Induced Crosslinking in Polyethylene by Diacetylenes" Radiat. Phys. Chem. Vol. 14 (1979) p. 729-735.
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36.		Salovey et al. "Irradiation of Ultra High Molecular Weight Polyethylene" Polymer Preprints. Vol. 26, No. 1 (1985) p. 118-119.
37.		Salovey, R. "On the Morphology of Crosslinking Polymers" Polymer Letters. Vol. 2 (1964) p. 833-834.
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40.		Shen et al. "The Friction and Wear Behavior of Irradiated Very High Molecular Weight Polyethylene" Wear. Vol. 30 (1974) p. 349-364.
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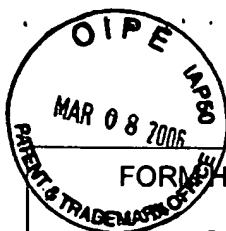
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44.	SB	Streicher, R. "Ionizing Irradiation for Sterilization and Modification of High Molecular Weight Polyethylenes" <i>Plastics and Rubber Processing and Applications</i> . Vol. 10, (1988) p. 221-229.
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50.		Zhao et al. "Effect of Irradiation on Crystallinity and Mechanical Properties of Ultrahigh Molecular Weight Polyethylene" <i>Journal of Applied Polymer Science</i> . Vol. 50 (1993) p. 1797-1801.
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1.	SB	4,390,666	06/28/1983	Moriguchi et al.		
2.	SB	5,466,530	11/14/1995	England et al.		
3.	SB	5,709,020	01/20/1998	Pienkowski et al.		

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1.	SB	WO 93/10953	06/10/1993	WIPO		N/A	

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